

DEPARTMENTAL ENERGY MANAGEMENT PROGRAM

(DEMP)

MODEL PROGRAMS

April 17, 2001

DEMP MODEL PROGRAMS

- FEMP MEMORANDUM, DEC 13, 2000, REQUESTING NOMINATIONS FOR UP TO \$1.5 MILLION FUNDING
- SECOND INITIATIVE – FIRST WAS DIRECT FUNDING OF RETROFIT PROJECTS

DEMP MODEL PROGRAMS

- 15 AREAS OF CONSIDERATION
 - EXPAND ESPC/UESC
 - AUDITS FOR ENERGY EFFICIENCY, WATER CONSERVATION, SURPLUS FACILITIES, INDUSTRIAL, LABORATORY
 - ENERGY STAR BUILDINGS/PRODUCTS
 - HIGH EFFICIENCY SYSTEMS/OFF-GRID GENERATION
 - SUSTAINABLE DESIGN/LEED CERTIFICATION
 - CHILLER REPLACEMENTS – CLASS 1 ODS
 - BLDG COMMISSIONING/RECOMMISSIONING

DEMP MODEL PROGRAMS

- EVALUATION CRITERIA
 - DOE LEADERSHIP EO13123 IMPLEMENTATION
 - POTENTIAL FOR COST-EFFECTIVE PROJECTS & OTHER BENEFITS
 - TRANSFERABILITY
 - SITE COST SHARING COMMITMENT
 - EXPERIENCE OF PROJECT TEAM & PARTNERS
 - MANAGEMENT COMMITMENT

DEMP MODEL PROGRAMS

SUSTAINABLE DESIGN

- SUSTAINABLE BUILDINGS DESIGN HELP
W/EMPHASIS ON LEED CERTIFICATION
- PROPOSALS FUNDED AT PNNL, ORNL, & SNLNM
 - SOME COST SHARING
 - RESEARCH EXISTING STANDARDS &
DETERMINE SITE APPLICABILITY
 - REVISE DESIGN STANDARDS/CRITERIA
 - APPLY TO NEW BUILDINGS DESIGN
 - LESSONS LEARNED TO OTHER DOE SITES
- NREL – ACCREDIT LEED EVALUATORS, CERTIFY
ONE BUILDING, ENERGY STAR PROCUREMENT,
EXPAND WEB SITE

DEMP MODEL PROGRAMS RECOMMISSIONING

- PNNL & ANL-E PROPOSALS FUNDED
- MONITORING BUILDING ENERGY USERS
- IMPLEMENT LOW COST ENERGY & MAINTENANCE CORRECTIONS
- IMPLEMENT HIGHER COST ITEMS (OTHER FUNDING SOURCES)
- LESSONS LEARNED

DEMP MODEL PROGRAMS

WATER MANAGEMENT

- TARGET – WATER CONSERVATION OR INCREASED EFFICIENCY OF USE
 - SITE-WIDE WATER MANAGEMENT PLAN & AUDITS OF AT LEAST 20% OF HIGHEST WATER USAGE FACILITIES AT INEEL
 - SITE-WIDE EVALUATION OF LOW CONDUCTIVITY WATER SYSTEM AT FERMI

DEMP MODEL PROGRAMS

ENERGY STAR BUILDINGS

- TARGET – QUALIFY BUILDINGS FOR ENERGY STAR LABEL THROUGH BENCHMARKING, AUDITING TO IDENTIFY COST EFFECTIVE MEASURES, & COLLECTING 1 YEAR OF METERED ENERGY USE DATA
 - METERING 11 BUILDINGS AT ONRL
 - SITE-WIDE METERING PLAN & METERING 2 BUILDINGS AT INEEL

DEMP MODEL PROGRAMS EXPANDING ESPC/UESC

- FUNDED NEW STARTS FOR ESPC DELIVERY ORDERS AT SRS & INEEL & FOR UESC AT FERMI
- FUNDED PILOT TESTS FOR USE OF ESPC IN CONTAMINATED SURPLUS FACILITIES AT INEEL & RL